

FIG. 1

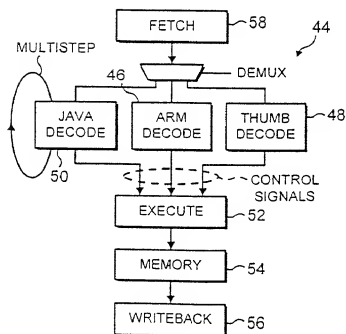


FIG. 2

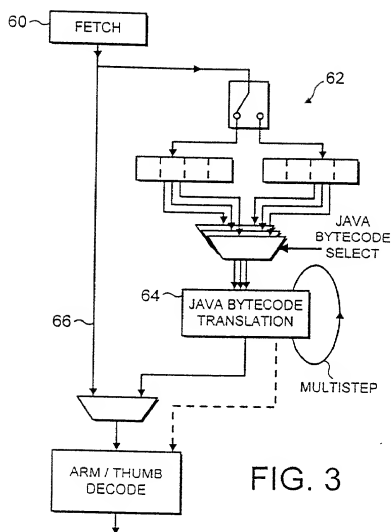


FIG. 3

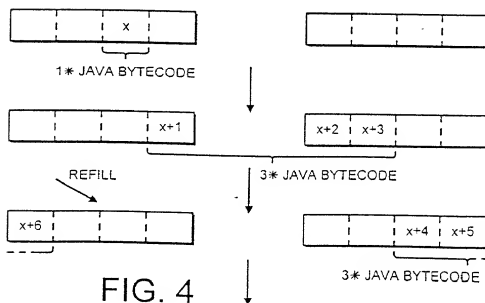
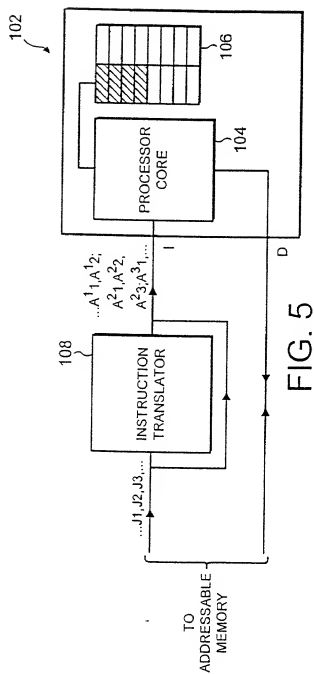


FIG. 4



JAVA INSTRUCTION	ladd (RF=2, RF>0)	ladd (RF=2, RF>1)	ladd (SA=-1)
ARM INSTRUCTION(S)	ladd (RF=2, RF>0)	ladd (RF=2, RF>1)	ladd (SA=-1)
STATE	00000	00100	00111
R0	E	SOA TOS	SOA TOS
R1	E	E	E
R2	E	E	E
R3	E	E	(SOA+SOB) TOS

JAVA INSTRUCTION	lload ¹ (RF=0, RE>2)	lload ² (RF=0, RE>2)	lload ² (RF=0, RE=2)
ARM INSTRUCTIONS	lload ¹ (RF=0, RE>2)	lload ² (RF=0, RE>2)	lload ² (RF=0, RE=2)
STATE	00000	00100	01000
R0	E	SOC TOS-1	SOC TOS-1
R1	E	SOD TOS	SOD TOS
R2	E	E	E
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	SOE TOS-1

STATE	00000	00100	01000	10011
R0	E	SOC TOS-1	SOC TOS-1	SOC TOS-3
R1	E	SOD TOS	SOD TOS	SOD TOS-2
R2	E	E	E	SOE TOS-1
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	E	SOF TOS

FIG. 6

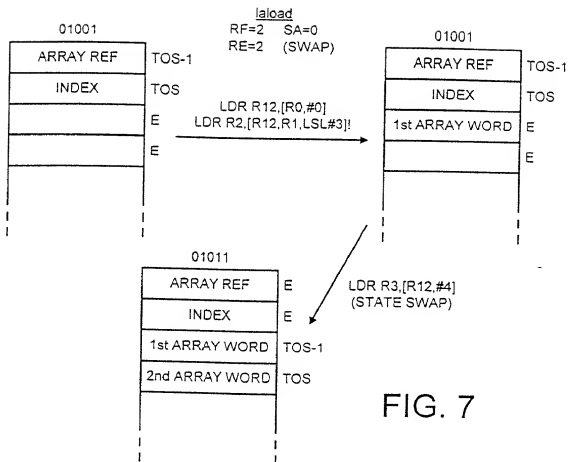


FIG. 7

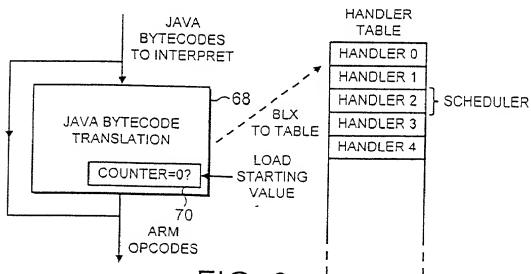


FIG. 9

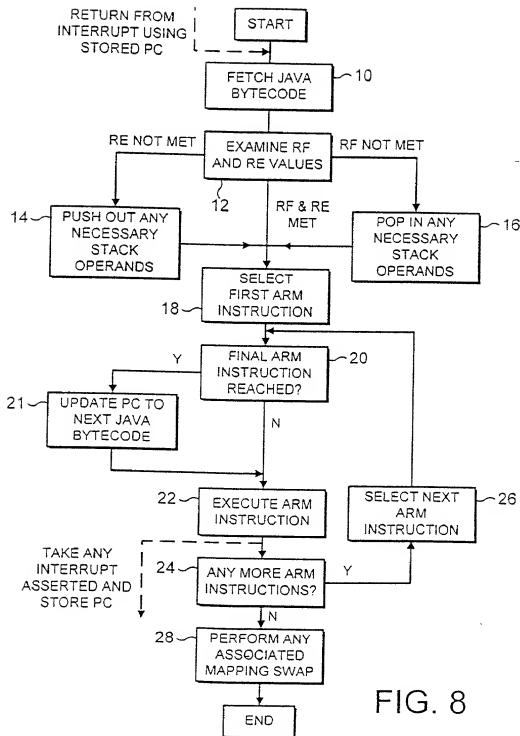


FIG. 8

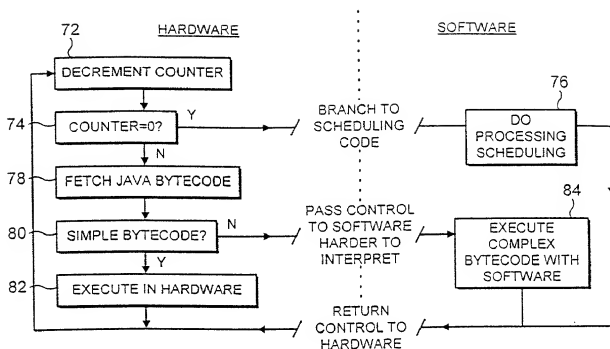


FIG. 10

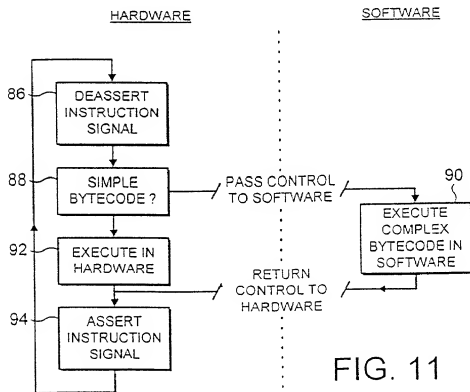


FIG. 11

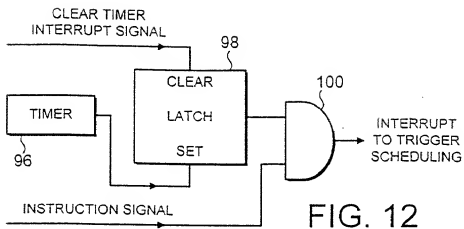


FIG. 12

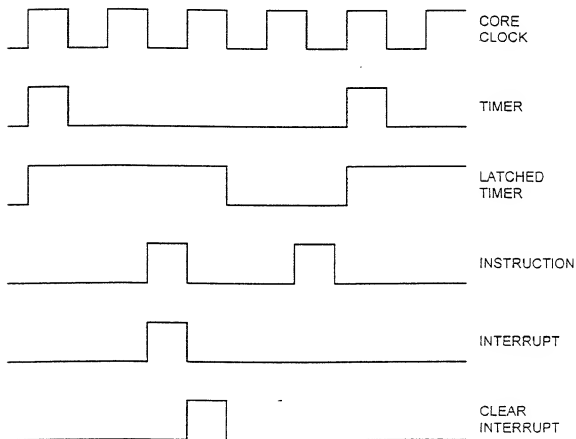


FIG. 13